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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/813,841      | 03/31/2004  | Garry M. Loy         | ELSE-0828/E20030030 | 6061             |

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| EXAMINER |
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CHANG, RICK KILTAE

|          |              |
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| ART UNIT | PAPER NUMBER |
|----------|--------------|

3729

DATE MAILED: 07/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/813,841

Applicant(s)

LOY ET AL.

Examiner

Rick K. Chang

Art Unit

3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) that are recited in item 6 below is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 6-17, 29 and 30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election without traverse of Group I and Species 1 in the reply filed on 4/28/05 is acknowledged. However, claims 18-20 and 23-28 are drawn to Figs. 4A-4B and they will not be examined.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2, 8-11, 13-15 and 29-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Friend (US 3,924,918).

Friend discloses 10 are dropped into through holes 30 of PCB 12; 10 are dropped into 50 of PCB 14; Fig. 3 shows 14 moving; Fig. 2 shows 30 and 50 are aligned before misaligning in Fig. 3; Fig. 2 shows 10 in locking mode;

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 6 and 16-17 are under 35 U.S.C. 103(a) as being unpatentable over Friend (US 3,924,918) in view of Black (US 4,749,943).

Art Unit: 3729

Friend fails to disclose a contact blade and the retaining feature is a pocket formed by the contact blade and a projection located proximate the contact blade; and restraining the wire by the projection and the contact blade to pivot about the projection.

Black discloses in Fig. 30 a contact blade 60 and the retaining feature is a pocket (a through hole formed therein) formed by the contact blade and a projection 62 located proximate the contact blade; and restraining the wire by the projection and the contact blade (Fig. 30) to pivot about the projection.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Friend by providing a contact blade and the retaining feature is a pocket formed by the contact blade and a projection located proximate the contact blade; and restraining the wire by the projection and the contact blade to pivot about the projection, as taught by Black, for the purpose of easily inserting a pin into a through hole.

6. Claims 3 and 7 are rejected under 35 U.S.C. 103(a) as being obvious over Friend (US 3,924,918)/Black (US 4,749,943), and further in view of Loy (US 6,838,867).

The applied reference (Loy (US 6,838,867)) has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR

Art Unit: 3729

1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Friend/Black fail to disclose that the projection is formed on a base of an electrical-energy meter.

Loy discloses that the projection (42b) is formed on a base of an electrical-energy meter.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Friend/Black by forming the projection on a base of an electrical-energy meter, as taught by Loy, for the purpose of facilitating a voltage connection between the contact blade and an auxiliary circuit board.

7. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Friend (US 3,924,918) in view of Official Notice.

Friend discloses 10 are dropped into through holes 30 of PCB 12 and 10 are dropped into 50 of PCB 14.

Friend fails to disclose a plated through hole.

Official Notice is taken that it is well known in the art to provide a plated through hole to connect an electrical device with reheating instead of wave soldering.

### ***Conclusion***


8. **Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another**

Art Unit: 3729

**column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.**

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM, Monday through Thursday.

The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9302 for regular communications and (703) 872-9303 for After Final communications.

  
\_\_\_\_\_  
RICHARD CHANG  
PRIMARY EXAMINER

RC  
July 6, 2005